



Precision Measuring Instruments with Excel-Formatted Data Logging SD Card



Precision, Specialty and Innovation

Item No.	Description	Page No.
Air Speed Meters		
DAF4207SD	Anemometer-Thermometer	3-4
HWA4214SD	Hot Wire Anemometer-Thermometer	5-6
DLAF930SD	Environment Meter	7-8
Sound Level Meters		
DSM402SD	Class 2 Sound Level Meter	9-10
DSM403SD	Class 1 Sound Level Meter	11-12
Light Meters		
UV254SD	UVA, UVC Light Meter	13-14
DLM112SD	Light Meter	15-16
Thermocouple Thermometers		
DT4947SD	4-Channel Thermometer	17-18
DT4208SD	12-Channel Temperature Recorder	19-20
Pressure Meter		
PM930SD	Pressure Meter	21-22
Humidity Meter		
DTH3007SD	Humidity-Temperature Meter	23-24
Vibration Meter		
VM8205SD	Vibration Meter	25-26
Water Quality Meters		
DPH230SD	pH, ORP Meter	27-28
6DCT430SD	Conductivity, TDS Meter	29-30
DOM551SD	Dissolved Oxygen Meter	31-32
WK2017SD	pH, ORP, DO, CD, TDS, Salt Meter	33-34



Anemometer-Thermometer with Excel-Formatted Data Logging SD Card

Accurately Measures Air (Wind) Speed and Temperature



No. DAF4207SD

Applications:

- Commercial/industrial ventilation
- Energy audits
- HVAC/R
- Paint spray booths



Industrial Vent



Energy Auditing

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



A screenshot of an Excel spreadsheet showing logged data. The columns are labeled Date, Time, Value, and Unit. The data includes wind speed and temperature readings over time.

Date	Time	Value	Unit
2009/08	15:12:16	0.0	air/s
2009/08	15:12:17	12.2	air/s
2009/08	15:12:19	2.1	air/s
2009/08	15:12:19	2.0	air/s
2009/08	15:12:20	2.0	air/s
2009/08	15:12:21	2.7	air/s
2009/08	15:12:22	3.0	air/s
2009/08	15:12:23	2.9	air/s
2009/08	15:12:24	2.9	air/s
2009/08	15:12:25	2.9	air/s
2009/08	15:12:26	2.0	air/s
2009/08	15:12:27	3.1	air/s
2009/08	15:12:28	3.4	air/s
2009/08	15:12:29	5.0	air/s
2009/08	15:12:31	4.2	air/s
2009/08	15:12:32	3.2	air/s
2009/08	15:12:33	2.6	air/s
2009/08	15:12:34	3.1	air/s
2009/08	15:12:35	3.0	air/s
2009/08	15:12:36	3.0	air/s
2009/08	15:12:37	3.1	air/s
2009/08	15:12:38	2.0	air/s

Typical Excel Data



Typical Excel Plotted Data



Anemometer-Thermometer

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Combination air-speed temperature probe
- 2GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Type K thermocouples
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)



No. DAF4207SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Air speed, temperature

Measurement Range:

- For air speed: 0.4 to 30m/sec, 1.4 to 126 km/hr, 0.9 to 78.3 mph, 0.8 to 68 knots, 79 to 6890 ft/min
- For temperature: 32° to 122°F (0° to 50°C)

Measurement Accuracy:

- For air speed: $\pm (2\% + 0.2 \text{ m/sec})$, $\pm (2\% + 0.8 \text{ km/hr})$, $\pm (2\% + 0.4 \text{ mph})$, $\pm (2\% + 0.4 \text{ knots})$, $\pm (2\% + 40 \text{ ft/min})$
- For temperature: $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$)

Measurement Resolution:

- For air speed: 0.1 m/sec, 0.1 km/hr, 0.1 mph, 0.1 knots, 1.0 ft/min
- For temperature: 0.1°F or C

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, optional thermocouple type (K or J)

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1GB to 16GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption

- 15 mADC (normal operation, with backlight off and SD card not saving data)
- 36 mADC with backlight on and card saving data
- 48mADC with backlight on and card saving data

Dimensions of Instrument:

7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)

Weight of Instrument: 1.13 lb. (515g)

Diameter of Probe Head: 2.83 in. (72mm)



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80 White Street, New York, NY 10013-3567
TEL: 212. 431. 6100 TOLL FREE: 800. 697. 8665
sales@generaltools.com www.generaltools.com



Hot Wire Anemometer-Thermometer with Excel-Formatted Data Logging SD Card

**Accurately Measures Air (Wind) Speeds As Low As 0.5 mph
and Air Temperatures within $\pm 1.5^{\circ}\text{F}$ ($\pm 0.8^{\circ}\text{C}$)**



No. HWA4214SD

Applications:

- Environmental testing
- Maintenance and repair of air conveyors and flow hoods in clean rooms
- Calibrating low-speed fans and blowers
- Balancing velocity profiles in furnaces and refrigerated cases
- Precision calibration of HVAC/R systems



Minimally Invasive Duct Leak Testing



Calibrating HVAC Systems

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	Time	Date	Time	Value	Unit	Value	Unit
1							
2	1	2009/6/8	13:12:16	0.8	mi/s	26.8	AMTemp C
3	2	2009/6/8	13:12:17	2.2	mi/s	26.8	AMTemp C
4	3	2009/6/8	13:12:18	2.3	mi/s	26.8	AMTemp C
5	4	2009/6/8	13:12:19	2.9	mi/s	26.8	AMTemp C
6	5	2009/6/8	13:12:20	2.9	mi/s	26.8	AMTemp C
7	6	2009/6/8	13:12:21	2.7	mi/s	26.8	AMTemp C
8	7	2009/6/8	13:12:22	3.6	mi/s	26.8	AMTemp C
9	8	2009/6/8	13:12:23	2.9	mi/s	26.8	AMTemp C
10	9	2009/6/8	13:12:24	2.9	mi/s	26.8	AMTemp C
11	10	2009/6/8	13:12:25	2.9	mi/s	26.8	AMTemp C
12	11	2009/6/8	13:12:26	2.9	mi/s	26.8	AMTemp C
13	12	2009/6/8	13:12:27	3	mi/s	26.8	AMTemp C
14	13	2009/6/8	13:12:28	3.1	mi/s	26.8	AMTemp C
15	14	2009/6/8	13:12:29	3.1	mi/s	26.8	AMTemp C
16	15	2009/6/8	13:12:30	5.9	mi/s	26.1	AMTemp C
17	16	2009/6/8	13:12:31	4.2	mi/s	29	AMTemp C
18	17	2009/6/8	13:12:32	3.2	mi/s	26.8	AMTemp C
19	18	2009/6/8	13:12:33	3.4	mi/s	26.8	AMTemp C

Typical Excel Data



Typical Excel Plotted Data



Hot Wire Anemometer-Thermometer with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Telescoping air speed/temperature probe
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Type K thermocouples
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)



No. HWA4214SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Air speed, temperature

Measurement Range:

- For air speed: 0.2 to 25 m/sec, 0.7 to 172 km/hr, 0.5 to 44.7 mph, 0.4 to 38.8 knots, 40 to 3940 ft/min
- For temperature: 32° to 122°F (0° to 50°C)

Measurement Accuracy:

- For air speed: $\pm (5\% + 0.1 \text{ m/sec})$, $\pm (5\% + 0.3 \text{ km/hr})$, $\pm (5\% + 0.2 \text{ mph})$, $\pm (5\% + 0.2 \text{ knots})$, $\pm (5\% + 20 \text{ ft/min})$
- For temperature: $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$)

Measurement Resolution:

- For air speed: 0.01 m/sec (0.2 to 5.0 m/sec), 0.1 m/sec (5.1 to 25.0 m/sec); 0.01 km/hr (0.7 to 18 km/hr), 0.1 km/hr (18 to 72 km/hr); 0.01 mph (0.5 to 11.20 mph), 0.1 mph (11.2 to 44.7 mph); 0.01 knot (0.4 to 9.7 knots), 0.1 knot (9.7 to 38.8 knots); 1 ft/min (40 to 3940 ft/min)
- For temperature: 0.1° F or C

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, optional thermocouple type (K or J)

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 30 mADC (normal operation, with backlight off and SD card not saving data)
- 50 mADC (with backlight on and card saving data)

Dimensions of Instrument:

7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)

Weight of Instrument: 1.13 lb. (515g)

Dimensions of Probe:

0.4724 in. (diameter) x 11.02 in. (collapsed)/37 in. (extended)
(12mm x 280mm/940mm)



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Environment Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Air (Wind) Speed + Temperature,
Air Temperature + Humidity, Light & Sound Levels,
Surface Temperature**



No. DLAF930SD

Applications:

- Facilities management
- Environment control
- OSHA compliance



Facilities Management



Environment Control

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Time	Temp	Humidity	Wind Speed	Wind Dir	Light	Sound
1	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
2	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
3	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
4	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
5	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
6	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
7	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
8	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
9	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
10	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
11	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
12	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
13	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
14	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
15	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
16	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
17	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
18	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
19	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0
20	20.0000	25.0000	0.0 m/s	0.0	20.0 Airflow C	20.0

Typical Excel Data



Typical Excel Plotted Data



Environment Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Combination temperature/humidity/air speed/light level probe
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Type K thermocouples
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)
- Sound level probe/plug adapter (General P/N SC941)



No. DLAF930SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Air temperature, relative humidity (R.H.), air speed, light level

Measurement Range:

- For air speed: 0.4 to 25 m/sec, 1.4 to 90 km/hr, 0.9 to 55.9 mph, 0.8 to 48.6 knots, 80 to 4930 ft/min
- For temperature: 32° to 122°F (0 to 50°C); for R.H., 10 to 95%
- For light level: 0 to 20,000 lux, 0 to 1860 ft-cd

Measurement Accuracy:

- For air speed: $\pm (2\% + 0.2 \text{ m/sec})$, $\pm (2\% + 0.8 \text{ km/hr})$, $\pm (2\% + 0.4 \text{ mph})$, $\pm (2\% + 0.4 \text{ knots})$, $\pm (2\% + 40 \text{ ft/min})$
- For temperature: 1.5°F ($\pm 0.8^\circ\text{C}$)
- For humidity: $\pm (3\% \text{ of reading} + 1\%)$ for R.H. values $\geq 70\%$; $\pm 3\% \text{ of reading}$ for R.H. values $< 70\%$
- For light level: $\pm (5\% \text{ of reading} \pm 8 \text{ digits})$

Measurement Resolution:

- For air speed: 0.1 m/sec, 0.1 km/hr, 0.1 mph, 0.1 knots, 1.0 ft/min
- For temperature: 0.1 °F or °C
- For humidity: 0.1% of reading
- For light level: 1 lux, 0.1 ft-cd

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, light level unit, optional thermocouple type (K or J)

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 3.5 mADC (normal operation, with backlight off and SD card not saving data)
- 28 mADC with backlight on and card saving data
- 40mADC with backlight on and card saving data

Dimensions of Meter:

5.31 x 2.36 x 1.30 in. (135 x 60 x 33mm)

Weight of Meter: 1.13 lb. (515g)

Dimensions of Probe:

4.13 x 1.81 x 1.14 in. (105 x 46 x 29mm)



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sales@generaltools.com www.generaltools.com



Accurately Measures Sound Levels of Machinery or an Environment with 0.1 dB Resolution



- Noise pollution control
- OSHA noise regulatory compliance
- Acoustics design



Typical Excel Data





Class 2 Sound Level Meter with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Sound wind shield ball
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)



No. DSM402SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38 mm)

Parameter Measured: dB

Frequency Range: 31.5 Hz to 8 kHz

Measurement Range:

- 30 to 130 dB in autoranging mode
- User can also select fixed range of 30 to 80 dB, 50 to 100 dB, or 80 to 130 dB

Measurement Weighting:

- By frequency: frequency weighing uses "A" or "C" standard
- By time: time weighting is fast or slow (200 ms or 500 ms response time)

Measurement Accuracy:

- With "A" frequency weighting: ± 3.5 dB @ 31.5 Hz, 2.5 dB @ 63 Hz, 2 dB @ 125 Hz, 1.9 dB @ 250 Hz, 1.9 dB @ 500 Hz, 1.4 dB @ 1 kHz, 2.6 dB @ 2 kHz, 3.6 dB @ 4 kHz, 5.6 dB @ 8 kHz

Measurement Resolution: 0.1 dB

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, "A" or "C" frequency weighting, fast or slow time weighting

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 8 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

Dimensions of Meter:

9.65 x 2.68 x 1.77 in. (245 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)



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Class 1 Sound Level Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Sound Levels of Machinery
or an Environment with 0.1 dB Resolution**



No. DSM403SD

Applications:

- Acoustics design
- Sound system setup
- OSHA compliance



Acoustics Design



Sound System Setup

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A1				
	Place	Date	Time	Value	Unit
1	1	2009/10/16	16:47:05	60.8	dB
2	2	2009/10/16	16:47:07	66.9	dB
3	3	2009/10/16	16:47:09	68.8	dB
4	4	2009/10/16	16:47:11	71	dB
5	5	2009/10/16	16:47:13	82.3	dB
6	6	2009/10/16	16:47:15	92.3	dB
7	7	2009/10/16	16:47:17	93.1	dB
8	8	2009/10/16	16:47:19	93.1	dB
9	9	2009/10/16	16:47:21	89.8	dB
10	10	2009/10/16	16:47:23	90.2	dB

Typical Excel Data



Typical Excel Plotted Data



Class 1 Sound Level Meter with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Sound wind shield ball
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)



No. DSM403SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameter Measured: dB

Frequency Range: 31.5 Hz to 16 kHz

Measurement Range:

- 30 to 130 dB in autoranging mode
- User can also select fixed range of 30 to 80 dB, 50 to 100 dB, or 80 to 130 dB

Measurement Weighting:

- By frequency: using Class I IEC 61672 standard; frequency weighing uses "A" or "C" standard
- By time: using Class 1 IEC 61672 standard; time weighting is fast or slow (200 ms or 500 ms response time)

Measurement Accuracy:

- With "A" frequency weighting: ± 2.0 dB @ 31.5 Hz, 1.5 dB @ 63 Hz, 1.5 dB @ 125 Hz, 1.4 dB @ 250 Hz, 1.4 dB @ 500 Hz, 1.1 dB @ 1 kHz, 1.6 dB @ 2 kHz, 1.6 dB @ 4 kHz, +2.1 dB and -3.1 dB @ 8 kHz; +3.0 dB and -6.0 dB @ 12.5 kHz, +3.5 dB and -17.0 dB @ 16 kHz

Measurement Resolution: 0.1 dB

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, "A" or "C" frequency weighting, fast or slow time weighting

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 8 mADC (normal operation, with backlight off and SD card not saving data)
- 14 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

Dimensions of Meter:

9.65 x 2.68 x 1.77 in. (245 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)



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UVA, UVC Light Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures UVA and UVC Light Intensity within
Two Automatically Switched Full-Scale Ranges:
2 mW/cm² and 20 mW/cm²**



No. UV254SD

Applications:

- Welding
- UV food sterilization
- Photochemical matching
- Erasing memory chips
- Exposing photoresists
- Curing of inks, adhesives and coatings



Welding



UV Sterilization

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A	B	C	D	E
1	Place	Date	Time	Value	Unit
2	1	2009/12/11	09:55:56	2.37	UVA mW/cm²
3	2	2009/12/11	09:55:58	2.4	UVA mW/cm²
4	3	2009/12/11	09:56:00	2.58	UVA mW/cm²
5	4	2009/12/11	09:56:02	3.29	UVA mW/cm²
6	5	2009/12/11	09:56:04	3.74	UVA mW/cm²
7	6	2009/12/11	09:56:06	3.89	UVA mW/cm²
8	7	2009/12/11	09:56:08	3.14	UVA mW/cm²
9	8	2009/12/11	09:56:10	2.23	UVA mW/cm²
10	9	2009/12/11	09:56:12	0.953	UVA mW/cm²
11	10	2009/12/11	09:56:14	1.011	UVA mW/cm²
12	11	2009/12/11	09:56:16	0.981	UVA mW/cm²
13	12	2009/12/11	09:56:18	0.673	UVA mW/cm²
14	13	2009/12/11	09:56:20	0.892	UVA mW/cm²
15	14	2009/12/11	09:56:22	2.16	UVA mW/cm²

Typical Excel Data



Typical Excel Plotted Data



UVA, UVC Light Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- UVA probe
- UVC probe
- 2 GB SD memory card
- Hard carrying case
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)



No. UV254SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38 mm)

UV Light Types Measured: UVA, UVC

Measurement Range: 240 nm to 390 nm

Measurement Accuracy: $\pm 4\%$ of full-scale reading
+ 2 digits

Full-Scale Autoranges: 2 mW/cm² and 20 mW/cm²

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 1 hour

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, temperature unit ($^{\circ}$ F or $^{\circ}$ C), sampling time, thermocouple type (K or J), decimal point or comma

Operating Temperature: 32 $^{\circ}$ to 122 $^{\circ}$ F (0 $^{\circ}$ to 50 $^{\circ}$ C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries
or optional 9-VDC AC adapter

Power Consumption:

- 6.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of meter: 12.38 oz. (351 g)

Dimensions of UVA Probe Head:

1.77 in. (diagonal) x 1.26 in. (L) (45 x 32 mm)

Dimensions of UVA Probe Handle:

0.94 in. (diagonal) x 4.92 in. (L) (24 x 125 mm)

Weight of UVA Probe: 3.53 oz. (100g)

Dimensions of UVC Probe:

1.50 (diagonal) x 0.98 in (L) (38 x 25 mm)

Weight of UVC Probe: 3.63 oz. (103g)



General Tools & Instruments

80 White Street, New York, NY 10013-3567
TEL: 212. 431. 6100 TOLL FREE: 800. 697. 8665
sales@generaltools.com www.generaltools.com



Light Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Light Intensity in Lux or Foot-Candles
Using Three Automatically Switched Full-Scale Ranges**



No. DLM112SD

Applications:

- OSHA compliance
- Industrial/commercial photography/videography
- Construction
- Engineering
- Surveillance/security



- The law requires the owner of a loading dock to provide a **minimum** of 1 foot candle illumination
- Defendant's loading dock fell **far below** OSHA's minimum lighting requirement
- Defendant **violated** OSHA's minimum illumination requirement and therefore Defendant's violation is negligent

An OSHA Citation



Industrial Photography

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A1		A2		A3		A4		A5		A6		A7		A8		A9		A10		A11		A12		A13		A14		A15		A16		A17		A18		A19		A20		A21		A22		A23		A24		A25		A26		A27		A28		A29		A30		A31		A32		A33		A34		A35		A36		A37		A38		A39		A40		A41		A42		A43		A44		A45		A46		A47		A48		A49		A50		A51		A52		A53		A54		A55		A56		A57		A58		A59		A60		A61		A62		A63		A64		A65		A66		A67		A68		A69		A70		A71		A72		A73		A74		A75		A76		A77		A78		A79		A80		A81		A82		A83		A84		A85		A86		A87		A88		A89		A90		A91		A92		A93		A94		A95		A96		A97		A98		A99		A100		A101		A102		A103		A104		A105		A106		A107		A108		A109		A110		A111		A112		A113		A114		A115		A116		A117		A118		A119		A120		A121		A122		A123		A124		A125		A126		A127		A128		A129		A130		A131		A132		A133		A134		A135		A136		A137		A138		A139		A140		A141		A142		A143		A144		A145		A146		A147		A148		A149		A150		A151		A152		A153		A154		A155		A156		A157		A158		A159		A160		A161		A162		A163		A164		A165		A166		A167		A168		A169		A170		A171		A172		A173		A174		A175		A176		A177		A178		A179		A180		A181		A182		A183		A184		A185		A186		A187		A188		A189		A190		A191		A192		A193		A194		A195		A196		A197		A198		A199		A200		A201		A202		A203		A204		A205		A206		A207		A208		A209		A210		A211		A212		A213		A214		A215		A216		A217		A218		A219		A220		A221		A222		A223		A224		A225		A226		A227		A228		A229		A230		A231		A232		A233		A234		A235		A236		A237		A238		A239		A240		A241		A242		A243		A244		A245		A246		A247		A248		A249		A250		A251		A252		A253		A254		A255		A256		A257		A258		A259		A260		A261		A262		A263		A264		A265		A266		A267		A268		A269		A270		A271		A272		A273		A274		A275		A276		A277		A278		A279		A280		A281		A282		A283		A284		A285		A286		A287		A288		A289		A290		A291		A292		A293		A294		A295		A296		A297		A298		A299		A300		A301		A302		A303		A304		A305		A306		A307		A308		A309		A310		A311		A312		A313		A314		A315		A316		A317		A318		A319		A320		A321		A322		A323		A324		A325		A326		A327		A328		A329		A330		A331		A332		A333		A334		A335		A336		A337		A338		A339		A340		A341		A342		A343		A344		A345		A346		A347		A348		A349		A350		A351		A352		A353		A354		A355		A356		A357		A358		A359		A360		A361		A362		A363		A364		A365		A366		A367		A368		A369		A370		A371		A372		A373		A374		A375		A376		A377		A378		A379		A380		A381		A382		A383		A384		A385		A386		A387		A388		A389		A390		A391		A392		A393		A394		A395		A396		A397		A398		A399		A400		A401		A402		A403		A404		A405		A406		A407		A408		A409		A410		A411		A412		A413		A414		A415		A416		A417		A418		A419		A420		A421		A422		A423		A424		A425		A426		A427		A428		A429		A430		A431		A432		A433		A434		A435		A436		A437		A438		A439		A440		A441		A442		A443		A444		A445		A446		A447		A448		A449		A450		A451		A452		A453		A454		A455		A456		A457		A458		A459		A460		A461		A462		A463		A464		A465		A466		A467		A468		A469		A470		A471		A472		A473		A474		A475		A476		A477		A478		A479		A480		A481		A482		A483		A484		A485		A486		A487		A488		A489		A490		A491		A492		A493		A494		A495		A496		A497		A498		A499		A500		A501		A502		A503		A504		A505		A506		A507		A508		A509		A510		A511		A512		A513		A514		A515		A516		A517		A518		A519		A520		A521		A522		A523		A524		A525		A526		A527		A528		A529		A530		A531		A532		A533		A534		A535		A536		A537		A538		A539		A540		A541		A542		A543		A544		A545		A546		A547		A548		A549		A550		A551		A552		A553		A554		A555		A556		A557		A558		A559		A560		A561		A562		A563		A564		A565		A566		A567		A568		A569		A570		A571		A572		A573		A574		A575		A576		A577		A578		A579		A580		A581		A582		A583		A584		A585		A586		A587		A588		A589		A590		A591		A592		A593		A594		A595		A596		A597		A598		A599		A600		A601		A602		A603		A604		A605		A606		A607		A608		A609		A610		A611		A612		A613		A614		A615		A616		A617		A618		A619		A620		A621		A622		A623		A624		A625		A626		A627		A628		A629		A630		A631		A632		A633		A634		A635		A636		A637		A638		A639		A640		A641		A642		A643		A644		A645		A646		A647		A648		A649		A650		A651		A652		A653		A654		A655		A656		A657		A658		A659		A660		A661		A662		A663		A664		A665		A666		A667		A668		A669		A670		A671		A672		A673		A674		A675		A676		A677		A678		A679		A680		A681		A682		A683		A684		A685		A686		A687		A688		A689		A690		A691		A692		A693		A694		A695		A696		A697		A698		A699		A700		A701		A702		A703		A704		A705		A706		A707		A708		A709		A710		A711		A712		A713		A714		A715		A716		A717		A718		A719		A720		A721		A722		A723		A724		A725		A726		A727		A728		A729		A730		A731		A732		A733		A734		A735		A736		A737		A738		A739		A740		A741		A742		A743		A744		A745		A746		A747		A748		A749		A750		A751		A752		A753		A754		A755		A756		A757		A758		A759		A760		A761		A762		A763		A764		A765		A766		A767		A768		A769		A770		A771		A772		A773		A774		A775		A776		A777		A778		A779		A780		A781		A782		A783		A784		A785		A786		A787		A788		A789		A790		A791		A792		A793		A794		A795		A796		A797		A798		A799		A800		A801		A802		A803		A804		A805		A806		A807		A808		A809		A810		A811		A812		A813		A814		A815		A816		A817		A818		A819		A820		A821		A822		A823		A824		A825		A826		A827		A828		A829		A830		A831		A832		A833		A834		A835		A836		A837		A838		A839		A840		A841		A842		A843		A844		A845		A846		A847		A848		A849		A850		A851		A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Light Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Light probe with protective cover
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Type K thermocouples
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)



No. DLM112SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Full-Scale Ranges:

- 0 to 1,999 lux (0 to 186 ft-cd)
- 1,800 to 19,990 lux (167 to 1,860 ft-cd)
- 18,000 to 99,900 lux (1,670 to 9,290.7 ft-cd)

Measurement Accuracy:

- $\pm 4\%$ of full-scale reading + 2 digits for all lux readings and ft-cd readings at 200 ft-cd full-scale (f.s.)
- $\pm 4\%$ of f.s. reading + 2 ft-cd at 2,000 ft-cd f.s.
- $\pm 4\%$ of f.s. reading + 20 ft-cd at 20,000 ft-cd f.s.

Measurement Resolution:

- 1 lux at 2,000 lux f.s.
- 10 lux at 20,000 lux f.s.
- 100 lux at 100,000 lux f.s.
- 0.1 ft-cd at 200 ft-cd f.s.
- 1 ft-cd at 2,000 ft-cd f.s.
- 10 ft-cd at 10,000 ft-cd f.s.

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 1 hour

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, temperature unit ($^{\circ}\text{F}$ or $^{\circ}\text{C}$), sampling time, thermocouple type (K or J), decimal point or comma

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 6.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)



General Tools & Instruments

80 White Street, New York, NY 10013-3567
TEL: 212. 431. 6100 TOLL FREE: 800. 697. 8665
sales@generaltools.com www.generaltools.com



4-Channel Thermometer

with Excel-Formatted Data Logging SD Card

**Accurately Measures 4 Channels of Temperature
from -148° to 3092°F (-100° to 1700°C)**



No. DT4947SD

Applications:

- Food and chemical processing
- HVAC/R systems
- Power generation
- Paper production



Food Processing



Paper Production

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



A screenshot of an Excel spreadsheet showing multiple columns of temperature data (T1, T2, T3, T4) and timestamps, demonstrating the data logging capability.

Typical Excel Data



Typical Excel Plotted Data



4-Channel Thermometer

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Carrying case
- Two Type K beaded thermocouple probes
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Pt 100 ohm RTD (General P/N RTDTP-100)
- Additional Type K thermocouples
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)



No. DT4947SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameter Measured: Temperature (in °F or °C)

Measurement Range:

- For Pt 100 ohm RTD: -327° to 1562°F
- For thermocouples: depends on type

Measurement Accuracy:

- For Pt 100 ohm probes: \pm (4% of reading + 1.8°F) from -327° to 999.9°F, \pm (4 % of reading + 2.0°F) from 1000° to 1562°F
- For thermocouples: \pm (4% of reading + 2.0°F max)

Measurement Resolution:

- For Pt 100 ohm probes: 0.1° (F or C) from -327° to 999.9°F, 1°F from 1000° to 1562°F
- For thermocouples: 0.1° (F or C) below 1000°F and 1° (F or C) above 1000°F for Types K, J, T and E; 1° (C or F) for Types R and S

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, temperature unit, sampling time

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 8.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

Dimensions of Thermometer:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Thermometer: 1.13 lb. (515g)



General Tools & Instruments

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sales@generaltools.com www.generaltools.com



12-Channel Temperature Recorder with Excel-Formatted Data Logging SD Card

**Accurately Measures 12 Channels of Temperature
from -148° to 3092°F (-100° to 1700°C)**



No. DT4208SD

Applications:

- Food and chemical processing
- PC board burn-in
- Paper production
- HVAC/R (heating, ventilation and air-conditioning/refrigeration)
- Power generation



Petrochemical Production



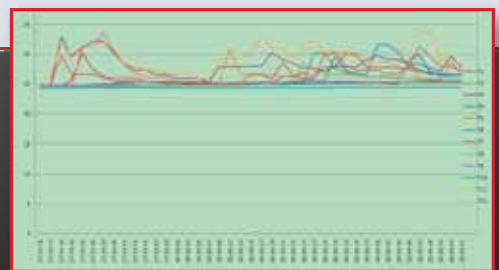
PC Board Burn-In

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Time	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12
1/1/2008 1:00:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:01:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:02:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:03:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:04:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:05:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:06:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:07:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:08:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:09:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:10:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:11:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:12:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:13:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:14:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:15:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:16:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:17:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:18:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:19:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:20:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:21:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:22:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:23:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:24:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:25:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:26:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:27:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:28:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:29:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:30:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:31:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:32:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:33:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:34:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:35:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:36:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:37:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:38:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:39:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:40:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:41:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:42:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:43:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:44:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:45:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:46:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:47:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:48:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:49:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:50:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:51:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:52:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:53:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:54:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:55:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:56:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:57:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:58:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 1:59:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6
1/1/2008 2:00:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.6	44.5	44.8	44.7	44.6

Typical Excel Data



Typical Excel Plotted Data



12-Channel Temperature Recorder with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Two Type K beaded thermocouple probes
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Type K thermocouples
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)



No. DT4208SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameter Measured: Temperature (in °F or °C)

Measurement Range:

- Using supplied Type K thermocouples: -148° to 2372°F (-100° to 1300°C)
- For other thermocouples: depends on type

Measurement Accuracy:

- For supplied Type K thermocouples: \pm (4 % of reading + 2.0°F max)

Measurement Resolution

- For supplied type K thermocouples: 0.1° (F or C) below 1000°F, 1° (F or C) above 1000°F

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, loop recording enable or disable, temperature unit, sampling time

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 7.5 mADC (normal operation, with backlight off and SD card not saving data)
- 25 mADC with backlight on and card saving data
- 36 mADC with backlight on and card saving data

Dimensions:

8.86 x 4.92 x 2.52 in. (225 x 125 x 64mm)

Weight: 2.1 lb. (944g)



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80 White Street, New York, NY 10013-3567
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Pressure Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Hydraulic or Pneumatic Pressure
Using Ten Different Units**



No. PM930SD

Applications:

- Automotive
- Mechanical engineering/design
- HVAC/R systems
- Equipment MRO



Boiler Room Pump Maintenance



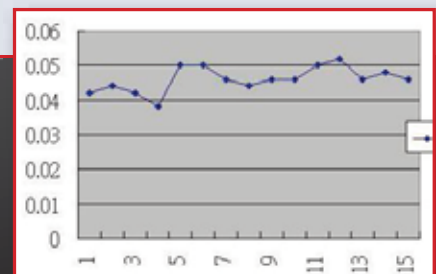
Hydraulic Valve Testing

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A	B	C	D	E
1	Position	Date	Time	Chl_Value	Chl_Unit
2	1	2009/10/19	10:18:58	0.042	Bar
3	2	2009/10/19	10:19:00	0.044	Bar
4	3	2009/10/19	10:19:02	0.042	Bar
5	4	2009/10/19	10:19:04	0.038	Bar
6	5	2009/10/19	10:19:06	0.05	Bar
7	6	2009/10/19	10:19:08	0.05	Bar
8	7	2009/10/19	10:19:10	0.046	Bar
9	8	2009/10/19	10:19:12	0.044	Bar
10	9	2009/10/19	10:19:14	0.046	Bar
11	10	2009/10/19	10:19:16	0.046	Bar
12	11	2009/10/19	10:19:18	0.05	Bar
13	12	2009/10/19	10:19:20	0.052	Bar
14	13	2009/10/19	10:19:22	0.046	Bar

Typical Excel Data



Typical Excel Plotted Data



Pressure Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Carrying case
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- 2 bar full-scale pressure sensor (General P/N PS2)
- Pressure sensors:
 - 5 bar full-scale (General P/N PS5)
 - 10 bar full-scale (General P/N PS10)
 - 50 bar full-scale (General P/N PS50)
 - 100 bar full-scale (General P/N PS100)
 - 400 bar full-scale (General P/N PS400)



No. PM930SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Displayed Pressure Unit: bar, psi, inches Hg, inches H₂O, hPA, kPA, kg/cm², mm Hg, meters H₂O, atmospheres

Measurement Accuracy: $\pm 0.5\%$ of full-scale reading + 1 digit

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, optional pressure sensor's full-scale range (2, 5, 10, 20, 50, 100, 200 or 400 bar)

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 5 mADC (normal operation, with backlight off and SD card not saving data)
- 25 mADC with backlight on and card saving data
- 37 mADC with backlight on and card saving data

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 0.77 lb. (350g)



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Humidity-Temperature Meter with Excel-Formatted Data Logging SD Card

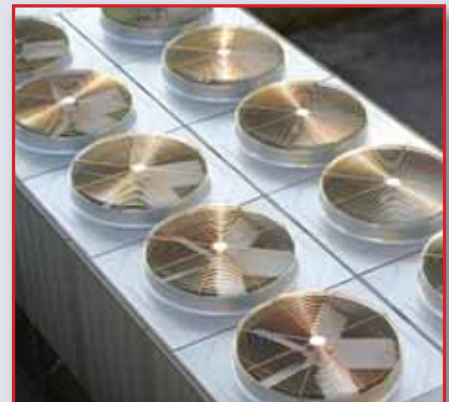
Accurately Measures Temperature and Relative Humidity of a Fluid Including Dew Point/Wet-Bulb Temperature of Ambient Air



No. DTH3007SD

Applications:

- HVAC/R systems
- Horticulture



Rooftop HVAC System



Horticulture

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Place	Date	Time	Value	Unit	Value	Unit												
2	1	2009/4/23	10:45:28	53.8	%RH	29.5	Degree C												
3	2	2009/4/23	10:46:01	53.8	%RH	29.5	Degree C												
4	3	2009/4/23	10:46:40	53.8	%RH	29.5	Degree C												
5	4	2009/4/23	10:46:55	53.8	%RH	29.5	Degree C												
6	5	2009/4/23	10:46:57	53.7	%RH	29.5	Degree C												
7	6	2009/4/23	10:46:59	53.7	%RH	29.5	Degree C												
8	7	2009/4/23	10:46:11	66.2	%RH	29.5	Degree C												
9	8	2009/4/23	10:46:13	76.7	%RH	29.6	Degree C												
10	9	2009/4/23	10:46:15	75.9	%RH	29.6	Degree C												
11	10	2009/4/23	10:46:17	66.8	%RH	29.7	Degree C												
12	11	2009/4/23	10:46:19	63.2	%RH	29.6	Degree C												
13	12	2009/4/23	10:46:21	58.5	%RH	29.6	Degree C												
14	13	2009/4/23	10:46:23	56	%RH	29.6	Degree C												
15	14	2009/4/23	10:46:25	55	%RH	29.6	Degree C												
16	15	2009/4/23	10:46:27	54.6	%RH	29.5	Degree C												
17	16	2009/4/23	10:46:29	54.4	%RH	29.5	Degree C												
18	17	2009/4/23	10:46:31	54.3	%RH	29.5	Degree C												

Typical Excel Data



Typical Excel Plotted Data



Humidity-Temperature Meter with Excel-Formatted Data Logging SD Card

Included Accessories:

- Soft carrying case
- Temperature-humidity probe
- 2 GB SD memory card
- User's manual

Optional Accessories:

- Hard carrying case
- 9VDC adapter for 110V power supply (General P/N AC1)
- Type K thermocouples:
 - General P/N TPK500 (-50° to 500°F)
 - General P/N TPK05 (-40° to 562°F)
 - General P/N TPK03 (-40° to 950°F)



No. DTH3007SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Temperature, relative humidity (R.H.), dew point, wet-bulb temperature

Measurement Range:

- For temperature: 32° to 122°F (0° to 50°C)
- For R.H.: 5 to 95%;
- For dew point: -13.5° to 120.1°F (-25.3° to 48.9°C);
- For wet-bulb temperature: -6.9° to 122°F (-21.6° to 50°C)

Measurement Accuracy:

- $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$) for temperature
- Sum of temperature and humidity accuracies for dew point and wet-bulb temperature

Measurement Resolution:

- 0.1° (F or C) for temperature and humidity

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 3.5 mADC (normal operation, with backlight off and SD card not saving data)
- 28 mADC with backlight on and card saving data
- 40 mADC with backlight on and card saving data

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)



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80 White Street, New York, NY 10013-3567
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sales@generaltools.com www.generaltools.com



Vibration Meter

with Excel-Formatted Data Logging SD Card

Accurately Measures a Machine's Acceleration and Velocity to Determine if Its Within Operational Parameters



No. VM8205SD

Applications:

- Performance testing/preventive maintenance of fans and motors
- Plant inspection
- Equipment production QC



Motor Performance Testing



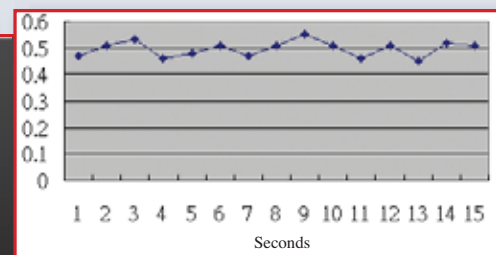
Fan Balancing

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



19	Place	Date	Time	Value	Unit
20	1	2010/9/6	10:06:44	0.47	ACC g
21	2	2010/9/6	10:06:46	0.51	ACC g
22	3	2010/9/6	10:06:48	0.53	ACC g
23	4	2010/9/6	10:06:50	0.46	ACC g
24	5	2010/9/6	10:06:52	0.48	ACC g
25	6	2010/9/6	10:06:54	0.51	ACC g
26	7	2010/9/6	10:06:56	0.47	ACC g
27	8	2010/9/6	10:06:58	0.51	ACC g
28	9	2010/9/6	10:07:00	0.55	ACC g
29	10	2010/9/6	10:07:02	0.51	ACC g
30	11	2010/9/6	10:07:04	0.46	ACC g
31	12	2010/9/6	10:07:06	0.51	ACC g

Typical Excel Data



Typical Excel Plotted Data



Vibration Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Vibration sensing probe
- Magnetic base
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)



No. VM8205SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Acceleration, velocity

Units:

- For acceleration: m/sec², g (gravitational force) or ft/sec²
- For velocity: mm/sec, cm/sec or inches/sec.

Displayed Value Options: Root mean square (RMS), peak, max hold

Input Frequency Range: 10 Hz to 1 kHz

Measurement Range:

- For acceleration: 0.5 to 199.9 m/sec², 0.05 to 20.39 g, 2 to 656 ft/sec²
- For velocity: 0.5 to 199.9 mm/sec, 0.05 to 19.99 cm/sec, 0.02 to 7.87 inches/sec

Measurement Accuracy:

- For acceleration: \pm (5% of reading + 2 digits)
- For velocity: \pm (5% of reading + 2 digits)

Measurement Resolution:

- For acceleration: 0.1 m/sec², 0.01 g, 1 ft/sec²
- For velocity: 0.1 m/sec, 0.01 inches/sec

Calibration Point:

- For acceleration: 50 m/sec² @ 160 Hz
- For velocity: 50 mm/sec @ 160 Hz

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, sampling time

Storable/Recallable Readings: Maximum, minimum, peak (RMS values only)

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 15 mADC (normal operation, with backlight off and SD card not saving data)
- 36 mADC with backlight on and card saving data
- 48 mADC with backlight on and card saving data

Dimensions of Meter:

7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)

Weight of Meter: 1.13 lb. (515g)

Dimensions of Probe:

1.46 (length) x 0.63 (diameter) in. (37 x 16 mm)

Length of Probe Cable: 47.24 in. (1.2m)



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pH, ORP Meter

with Excel-Formatted Data Logging SD Card

Accurately Measures pH and ORP (Oxidation-Reduction Potential)



No. DPH230SD

Applications:

- Water conditioning
- Beverage production
- Wastewater monitoring
- Aquaculture (fish farming)
- Aquariums
- Pulp and paper processing
- Electroplating
- Photography



Water Conditioning



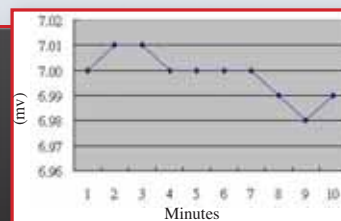
Beverage Production

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A	B	C	D	E	F	G
1	Position	Date	Time	Ch1_Value	Ch1_Unit	Ch2_Value	Ch2_Unit
2	1	2009/8/12	13:26:37	7.00	pH	25.0	Degree_C
3	2	2009/8/12	13:26:39	7.01	pH	25.0	Degree_C
4	3	2009/8/12	13:26:41	7.01	pH	25.0	Degree_C
5	4	2009/8/12	13:26:43	7.00	pH	25.0	Degree_C
6	5	2009/8/12	13:26:45	7.00	pH	25.0	Degree_C
7	6	2009/8/12	13:26:47	7.00	pH	25.0	Degree_C
8	7	2009/8/12	13:26:49	7.00	pH	25.0	Degree_C
9	8	2009/8/12	13:26:51	6.99	pH	25.0	Degree_C
10	9	2009/8/12	13:26:53	6.98	pH	25.0	Degree_C

Typical Excel Data



Typical Excel Plotted Data



pH, ORP Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Carrying case
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- ORP probe (General P/N ORP14)
- Automatic temperature compensation (ATC) probe (General P/N TP07)
- Professional-grade 0 to 14 pH electrode (General P/N PHS1)
- Heavy-duty spear tip pH electrodes (General P/Ns PHS4HD and PHS6HD)
- Combination pH electrode/temperature probe (General P/N PHS5T)
- Combination pH electrode/temperature probe with automatic temperature compensation (General P/N PHS3K7)



No. DPH230SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: pH, ORP

Measurement Range:

- For pH: 0 to 14
- For ORP: -1999 mV to +1999 mV

Measurement Accuracy:

- For pH: $\pm (0.02 \text{ pH units} + 2 \text{ digits})$
- For ORP: $\pm (0.5\% \text{ of reading} + 2 \text{ digits})$

Measurement Resolution:

- For pH: 0.01 unit
- For ORP: 1 mV

Temperature Compensation:

- Automatic between 32° and 150°F (0° and 65°C) when using optional ATC temperature probe.
- Manually settable between 32° and 212°F (0° and 100°C) without ATC probe

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, compensation temperature

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

Dimensions: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight: 1.08 lb. (489g)



General Tools & Instruments

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Conductivity, TDS Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Any Solution's Conductivity,
Total Dissolved Solids (TDS), Salt Content and Temperature**



No. DCT430SD

Applications:

- Electroplating
- Water conditioning
- Wastewater monitoring
- Aquaculture (fish farming)



Wastewater Treatment



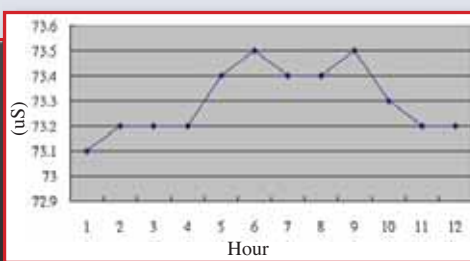
Salmon Farming

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A	B	C	D
1	Positions	Date	Time	Chl_Value
2	1	2009/8/12	13:16:36	73.1
3	2	2009/8/12	13:16:38	73.2
4	3	2009/8/12	13:16:40	73.2
5	4	2009/8/12	13:16:42	73.2
6	5	2009/8/12	13:16:44	73.4
7	6	2009/8/12	13:16:46	73.5
8	7	2009/8/12	13:16:48	73.4
9	8	2009/8/12	13:16:50	73.4
10	9	2009/8/12	13:16:52	73.5
11	10	2009/8/12	13:16:54	73.5

Typical Excel Data



Typical Excel Plotted Data



Conductivity, TDS Meter with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Combination conductivity/TDS/salt probe (General P/N CDPB03)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)



No. DCT430SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Probe Type: Carbon rod electrode

Parameters (units) Measured:

- Conductivity (uS, mS)
- Total dissolved solids (ppm)
- Salt content (% weight)
- Temperature (°F, °C)

Measurement Accuracy:

- For conductivity: $\pm 2\%$ of full-scale reading +1 digit, TDS
- For temperature: $\pm 0.8^\circ\text{C}/\pm 1.5^\circ\text{F}$
- For salt: $\pm 0.5\%$ of value

Measurement Resolution:

- For Conductivity: 0.1 uS @ 200 uS full-scale (f.s.), 0.001 mS @ 2 mS f.s., 0.01 mS @ 20 mS f.s., 0.1mS @ 200 mS f.s.
- For TDS: 0.1 ppm @ 200 ppm f.s., 1 ppm @ 2,000 ppm f.s., 10 ppm @ 20,000 ppm f.s., 100 ppm @ 100,000 ppm f.s.
- For Temperature: $0.1^\circ\text{F}/0.1^\circ\text{C}$
- For Salt: 0.01%

Temperature Compensation:

- Automatic from 32° to 140°F (0° to 60°C)
- Temperature compensation factor is manually variable

from 0 to 5% per degree Celsius

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, temperature compensation level

Operating Temperature:

- 32° to 122°F (0° to 50°C) for meter
- 32° to 140°F (0° to 60°C) for probe

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Dimensions of Probe:

0.86 in. (diameter) x 4.72 in. (L) (22mm x 120mm)



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Dissolved Oxygen Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Dissolved
Oxygen Concentration of Liquid or Air**



No. DOM551SD

Applications:

- Aquaculture (fish farming)
- Water pollution control
- Food processing
- Photography
- Pulp and paper manufacturing
- Power generation
- Electroplating
- Facilities management



Water Pollution Control



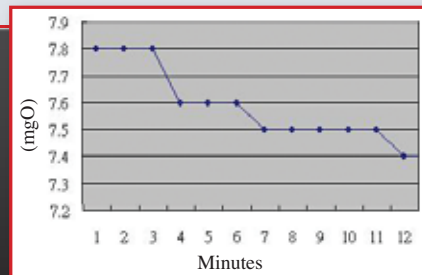
Power Generation

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



	A	B	C	D	E
1	Position	Date	Time	Ch1_Value	Ch1_Unit
2	1	2009/8/12	13:38:29	7.8	mg/L
3	2	2009/8/12	13:38:30	7.8	mg/L
4	3	2009/8/12	13:38:32	7.8	mg/L
5	4	2009/8/12	13:38:34	7.6	mg/L
6	5	2009/8/12	13:38:36	7.6	mg/L
7	6	2009/8/12	13:38:38	7.6	mg/L
8	7	2009/8/12	13:38:40	7.5	mg/L
9	8	2009/8/12	13:38:42	7.5	mg/L
10	9	2009/8/12	13:38:44	7.5	mg/L
11	10	2009/8/12	13:38:46	7.5	mg/L

Typical Excel Data



Typical Excel Plotted Data



Dissolved Oxygen Meter

with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Oxygen probe
- Probe-filling electrolyte
- Two spare probe heads and diaphragm set
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)



No. DOM551SD

Specifications:

Embedded Microcontroller: Custom single-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.0 x 1.5 in. (52 x 38mm)

DO Measurement Range: 0 to 20 mg/L

DO Measurement Resolution: 0.1 mg/L

DO Measurement Accuracy: ± 0.4 mg/L

Oxygen in Air Measurement Range: 0 to 100%

Oxygen in Air Measurement Resolution: 0.1% O_2

Oxygen in Air Measurement Accuracy: $\pm 0.7\%$ O_2

Temperature Measurement Range: 32° to 122°F (0° to 50°C)

Temperature Measurement Resolution: 0.1 °F or °C

Temperature Measurement Accuracy: ± 1.5 °F (± 0.8 °C)

Compensation For Temperature: Automatic

Compensation For Altitude: 0 to 29,200 ft. (0 to 8,900m)

Compensation For Liquid Salt Content: 0 to 50%

Data Logging Sampling Time: 1 second to 9 hours

DO Probe Type: Polarographic

SD Memory Card Capacity: 1 GB to 16 GB

Power Supply: Six Alkaline "AA" batteries or 9-VDC adapter

Power Consumption:

- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card not saving data
- 49 mADC with backlight on and card saving data

Operating Temperature: 32° to 122 °F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Dimensions of Meter:

7.0 x 2.7 x 1.9 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Dimensions of Probe:

7.5 (long) x 1.1 (across) inches (190 x 28mm)

Weight of Probe: 0.74 lb. (335g)



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pH, ORP, DO, CD, TDS, Salt Meter

with Excel-Formatted Data Logging SD Card

Accurately Measures Conductivity, Total Dissolved Solids (TDS) or Salt Concentration of a Liquid. Optional Probes Measure pH, ORP (Oxidation-Reduction Potential) and Dissolved Oxygen (DO)



No. WK2017SD

Applications:

- Water conditioning
- Wastewater monitoring and control
- Beverage production
- Aquaculture (fish farming)
- Pulp and paper processing
- Electroplating
- Photography



Beverage Production



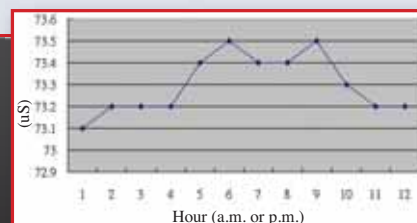
Wastewater Monitoring

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



A	B	C	D	E	F	G
1	Probe	Time	CH1_Value	CH1_Unit	CH2_Value	CH2_Unit
2	1	2009/5/12 13:06:36	73.1	°S	24.7	Degree_C
3	2	2009/5/12 13:06:38	73.2	°S	24.7	Degree_C
4	3	2009/5/12 13:06:40	73.2	°S	24.7	Degree_C
5	4	2009/5/12 13:06:42	73.2	°S	24.7	Degree_C
6	5	2009/5/12 13:06:44	73.4	°S	24.7	Degree_C
7	6	2009/5/12 13:06:46	73.5	°S	24.7	Degree_C
8	7	2009/5/12 13:06:48	73.4	°S	24.7	Degree_C
9	8	2009/5/12 13:06:50	73.4	°S	24.7	Degree_C
10	9	2009/5/12 13:06:52	73.7	°S	24.7	Degree_C
11	10	2009/5/12 13:06:54	73.3	°S	24.7	Degree_C
12	11	2009/5/12 13:06:56	73.2	°S	24.7	Degree_C
13	12	2009/5/12 13:06:58	73.2	°S	24.7	Degree_C

Typical Excel Data



Typical Excel Plotted Data



pH, ORP, DO, CD, TDS, Salt Meter with Excel-Formatted Data Logging SD Card

Included Accessories:

- Hard carrying case
- Combination conductivity/TDS/salt probe (General P/N CDPB03)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- ORP probe (General P/N ORP14)
- Automatic temperature compensation (ATC) probe (General P/N TP07)
- Oxygen probe (General P/N DOP2001)
- Professional-grade 0 to 14 pH electrode (General P/N PHS1)
- Heavy-duty spear tip pH electrodes (General P/Ns PHS4HD and PHS6HD)
- Combination pH electrode/temperature probe (General P/N PHS5T)
- Combination pH electrode/temperature probe with automatic temperature compensation (General P/N PHS3K7)



No. WK2017SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: pH, ORP, conductivity, TDS content, DO content, salt content

Measurement Range:

- For pH: 0 to 14
- For ORP: -1999 mV to +1999 mV
- For conductivity: up to 200 mS (microSiemens)
- For TDS: up to 132,000 ppm
- For DO: up to 20 mg/L
- For salt: up to 12% by weight

Measurement Accuracy:

- For pH: $\pm (0.02 \text{ pH units} + 2 \text{ digits})$
- For ORP: $\pm (0.5\% \text{ of reading} + 2 \text{ digits})$
- For conductivity: $\pm 2\% \text{ of full-scale reading} + 1 \text{ digit}$
- For TDS: $\pm 2\% \text{ of full-scale reading} + 1 \text{ digit}$
- For temperature: $\pm 0.8^\circ\text{C}/\pm 1.5^\circ\text{F}$
- For DO: $\pm 0.4 \text{ mg/L in solution}$
- For oxygen: 0.1% for oxygen in air
- For salt: $\pm 0.5\% \text{ of value}$

Measurement Resolution:

- For pH: 0.01 unit
- For ORP: 1 mV
- For conductivity: 0.1 μS @ 200 μS full-scale (f.s.), 0.001 mS @ 2 mS f.s., 0.01 mS @ 20 mS f.s., 0.1mS @ 200 mS f.s.
- For TDS: 0.1 ppm @ 200 ppm f.s., 1 ppm @ 2,000 ppm f.s., 10 ppm @ 20,000 ppm f.s., 100 ppm @ 100,000 ppm f.s.
- For temperature: 0.1°F/0.1°C
- For DO: 0.1 mg/L in solution
- For oxygen: 0.1% in air
- For salt: 0.01% of reading

Temperature Compensation:

- Automatic between 32° and 150°F (0° and 65°C) when using optional ATC temperature probe
- Manually settable between 32° and 212°F (0° and 100°C) without ATC probe

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, compensation temperature. Also salt and altitude compensation (DO mode only)

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Supply: Six Alkaline "AA" batteries or optional 9-VDC AC adapter

Power Consumption:

- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)



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Anemometer-Thermometer



No. DAF4207SD

Pages
3-4

Hot Wire Anemometer-Thermometer



No. HWA4214SD

Pages
5-6

Environment Meter



No. DLA930SD

Pages
7-8

Class 2 Sound Meter



No. DSM402SD

Pages
9-10

Class 1 Sound Meter



No. DSM403SD

Pages
11-12

UVA, UVC Light Meter



No. UV254SD

Pages
13-14

Light Meter



No. DLM112SD

Pages
15-16

4-Channel Thermometer



No. DT4947SD

Pages
17-18

12-Channel Temperature Recorder



No. DT4208SD

Pages
19-20

Pressure Meter



No. PM930SD

Pages
21-22

Humidity-Temperature Meter



No. DTH3007SD

Pages
23-24

Vibration Meter



No. VM8205SD

Pages
25-26

pH, ORP Meter



No. DPH230SD

Pages
27-28

Conductivity, TDS Meter



No. DCT430SD

Pages
29-30

Dissolved Oxygen Meter



No. DOM551SD

Pages
31-32

pH, ORP, DO, CD, TDS, Salt Meter



No. WK2017SD

Pages
33-34



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